

Title (en)
MICROMACHINED GYROSCOPE INCLUDING A GUIDED MASS SYSTEM

Title (de)
MIKROGEFERTIGTES GYROSKOP MIT EINEM GEFÜHRTEN MASSESYSTEM

Title (fr)
GYROSCOPE MICRO-USINÉ COMPRENANT UN SYSTÈME DE MASSE GUIDÉE

Publication
EP 3184961 B1 20210106 (EN)

Application
EP 17156131 A 20140829

Priority

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- EP 14182956 A 20140829

Abstract (en)
[origin: EP2884229A1] A gyroscope (150) comprises a substrate (101) and a guided mass system. The guided mass system comprises proof masses (102a, 651) and guiding arms (104a, 104b) disposed in a plane parallel to the substrate (101). The proof masses are coupled to the guiding arm by springs (103a, 103b). The guiding arm is coupled to the substrate by springs (108a, 108b). At least one of the proof-masses (651) is directly coupled to the substrate (101) by at least one anchor via a spring system (710a, 710b). The gyroscope also comprises an actuator (109a, 109b) for vibrating one of the proof-masses (102a) in the first direction, which causes another proof mass to rotate in the plane. Finally, the gyroscope also includes transducers (660a, 660b) for sensing motion of the guided mass system in response to angular velocities about a single axis or multiple input axes.

IPC 8 full level
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CPC (source: CN EP KR)
G01C 19/5712 (2013.01 - CN EP); **G01C 19/5719** (2013.01 - KR); **G01C 19/5733** (2013.01 - EP KR); **G01C 19/574** (2013.01 - EP)

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